

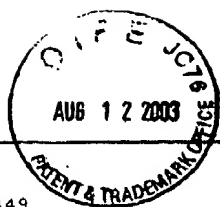
ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8

Stylesheet Version v1.8.0

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Title of Invention	Transformation Systems for Flavinogenig Yeast																
Application Number: 09/903508 *09/903508*																	
Confirmation Number: 3856																	
First Named Applicant: Charles Abbas																	
Attorney Docket Number: 1533.0830003																	
Search string: (6001597).pn.																	
US Patent Documents																	
Note: Applicant is not required to submit a paper copy of cited US Patent Documents																	
<table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>01</td><td>1</td><td>6001597</td><td>1999-12-14</td><td>Raymond et al.</td><td></td><td></td><td></td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	01	1	6001597	1999-12-14	Raymond et al.			
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01	1	6001597	1999-12-14	Raymond et al.													
Signature																	
<table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td>David Lambertson</td><td>10/7/03</td></tr></tbody></table>		Examiner Name	Date	David Lambertson	10/7/03												
Examiner Name	Date																
David Lambertson	10/7/03																



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THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1533.0830003/MAC/RGM

APPLICATION NO.
09/903,508

APPLICANT
Abbas et al.

FILING DATE
July 13, 2001

GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
DL	AO1	WO 91/18103 A1	11/28/1991	WIPO PCT			Yes No X
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Faber, K.N., et al., "Highly efficient electrotransformation of the yeast Hansenula polymorpha," Curr. Genet. 23:505-510, Springer-Verlag (1994)
DL	AS	17	Seifert, H.S., et al., "Shuttle mutagenesis: A method of transposon mutagenesis for <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 83:735-739, The National Academy of Sciences (1986)
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EXAMINER *David Jamieson*

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<i>DS</i>	AR	18	Database EMBL 'Online', Database Entry SC35112, Database Accession No. U35112 (1995)
<i>DS</i>	AS	18	Database EMBL 'Online', Database Entry AF347016, Database Accession No. AF347016 (March 19, 2001)
<i>DS</i>	AT	18	International Search Report for International Patent Application No. PCT/US01/22083, mailed October 10, 2002

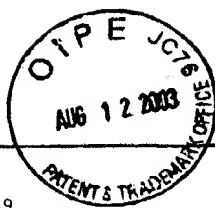
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DL	AA1	4,745,057	05/17/1988	Beckage et al.	435	68	08/13/1984
DL	AB1	4,794,081	12/27/1988	Kawai et al.	435	66	08/21/1984
DL	AC1	4,808,537	02/28/1989	Stroman et al.	435	6	10/30/1984
DL	AD1	4,837,148	06/06/1989	Cregg, J.M.	435	172.3	10/30/1984
DL	AE1	4,855,231	08/08/1989	Stroman et al.	435	68	09/25/1985
DL	AF1	4,879,231	11/07/1989	Stroman et al.	435	172.3	10/30/1984
DL	AG1	4,882,279	11/21/1989	Cregg, J.M.	435	172.3	10/25/1985
DL	AH1	4,885,242	12/05/1989	Cregg, J.M.	435	68	10/30/1984
DL	AI1	4,925,794	05/15/1990	Isogai et al.	435	91	12/11/1985
DL	AJ1	4,929,555	05/29/1990	Cregg et al.	435	172.3	10/19/1987
DL	AK1	4,935,350	06/19/1990	Patel et al.	435	69.4	11/18/1985

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DL	AL1	WO 95/26406	10/05/1995	WIPO PCT			Yes X No
DL	AM1	EP 0 967 287 A2	12/29/1999	Europe EPO			Yes No
DL	AN1	WO 99/61623	12/02/1999	WIPO PCT			Yes X No
	AO						Yes No
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DL	AR	1	Becker, D.M., and Guarente, L., "High-Efficiency Transformation of Yeast by Electroporation," Meth. Enzymol. 194:182-187, Academic Press, Inc. (1991).
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July 13, 2001GROUP
1646 1636

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
DL	AA2	4,937,193	06/26/1990	Hinchliffe et al.	435	172.3	06/26/1987
DL	AB2	4,943,529	07/24/1990	Van den Berg et al.	435	172.3	07/28/1987
DL	AC2	4,990,446	02/05/1991	Oberto et al.	435	69.1	12/05/1985
DL	AD2	4,997,767	03/05/1991	Nozaki et al.	435	329.1	12/23/1986
DL	AE2	5,041,384	08/20/1991	Wilson et al.	435	255	05/30/1990
DL	AF2	5,118,625	06/02/1992	Aiba et al.	435	255	12/16/1988
DL	AG2	5,120,655	06/09/1992	Foster et al.	435	255	06/05/1987
DL	AH2	5,126,248	06/30/1992	Matsuyama et al.	435	66	08/11/1989
DL	AI2	5,135,868	08/04/1992	Cregg, J.M.	435	255	09/01/1989
DL	AJ2	5,164,303	11/17/1992	Heefner et al.	435	66	02/15/1990
DL	AK2	5,210,023	05/11/1993	Grimmer et al.	435	66	07/01/1991

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	AP						Yes No

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DL	AR	2	Cannon, R.D., et al., "Isolation and nucleotide sequence of an autonomously replicating sequence (ARS) element functional in <i>Candida albicans</i> and <i>Saccharomyces cerevisiae</i> ," <i>Mol. Gen. Genet.</i> 221:210-218, Springer-Verlag (1990).
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DL	AT	2	Cregg, J.M., et al., " <i>Pichia pastoris</i> as a Host System for Transformations," <i>Mol. Cell. Biol.</i> 5:3376-3385, American Society for Microbiology (1985).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>DS</i>	AA3	5,212,087	05/18/1993	Fournier et al.	435	255	01/27/1989
<i>DS</i>	AB3	5,231,007	07/27/1993	Heefner et al.	435	66	08/15/1991
<i>DS</i>	AC3	5,268,273	12/07/1993	Buckholz, R.G.	435	69.1	12/14/1990
<i>DS</i>	AD3	5,334,510	08/02/1994	Usui et al.	435	66	09/09/1992
<i>DS</i>	AE3	5,460,949	10/24/1995	Saunders et al.	435	55	10/28/1991
<i>DS</i>	AF3	5,589,355	12/31/1996	Koizumi et al.	435	66	06/06/1995
<i>DS</i>	AG3	5,665,600	09/09/1997	Hagenson et al.	435	320.1	09/18/1991
<i>DS</i>	AH3	5,700,643	12/23/1997	Kawasaki, G.	435	6	06/06/1995
<i>DS</i>	AI3	5,716,808	02/10/1998	Raymond, C.K.	435	69.1	08/26/1996
<i>DS</i>	AJ3	5,736,383	04/07/1998	Raymond, C.K.	435	255.7	08/26/1996
<i>DS</i>	AK3	5,817,503	10/06/1998	Chambon et al.	435	254.2	05/30/1995

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DS</i>	AR	3	Dialog File 351, Accession No. 12891639, Derwent WPI English Language abstract for WO99/61623 (Document AN1).				
<i>DS</i>	AS	3	Dialog File 351, Accession No. 10444341, Derwent WPI English Language abstract for WO 95/26406 (Document AL1).				
<i>DS</i>	AT	3	Faber, K.N., et al., "Highly-efficient electrotransformation of the yeast <i>Hansenula polymorpha</i> ," Curr. Genet. 25:305-310, Springer-Verlag (1994).				

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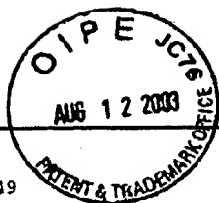
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ATTY. DOCKET NO.
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July 13, 2001GROUP
#646-1636

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<i>DL</i>	AA4	5,821,090	10/13/1998	Revuelta Doval et al.	435	88	09/24/1996
<i>DL</i>	AB4	5,837,528	11/17/1998	Perkins et al.	435	252.31	02/06/1995
<i>DL</i>	AC4	5,834,039	12/29/1998	Raymond et al.	435	172	07/14/1997
<i>DL</i>	AD4	5,866,404	02/02/1999	Bradshaw et al.	435	252.33	12/06/1996
<i>DL</i>	AE4	5,871,957	02/16/1999	Kawasaki et al.	435	69.1	08/22/1994
<i>DL</i>	AF4	5,891,672	04/06/1999	Wang et al.	435	69.1	11/25/1997
<i>DL</i>	AG4	5,925,538	07/20/1999	Perkins et al.	435	86	08/24/1998
<i>DL</i>	AH4	5,932,701	08/03/1999	Black et al.	530	350	11/25/1997
<i>DL</i>	AI4	6,017,728	01/25/2000	Black et al.	435	69.1	11/25/1997
<i>DL</i>	AJ4	6,146,866	11/14/2000	Viitanen et al.	435	193	10/28/1998
<i>DL</i>	AK4	3,932,390	01/13/1976	Daigle et al.	260	243 R	04/29/1975

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DL</i>	AR	4	Fayura, L.R., and Kashchenko, V.E., "Thermostable riboflavin kinase in yeast <i>Pichia guilliermondii</i> ," Ukr. Biokim. Zh. 69:21-25, Naukova Dumka (1997). An English language abstract is at the end of the document.
<i>DL</i>	AS	4	Fedorovych, D., et al., "Hexavalent chromium stimulation of riboflavin synthesis in flavinogenic yeast," Biometals 14:23-31, Kluwer Academic Publishers (March 2001).
<i>DL</i>	AT	4	Iimura, Y., et al., "Yeast Transformation without the Spheroplasting Process," Agric. Biol. Chem. 47:897-901, The Agricultural Chemical Society of Japan (1983).

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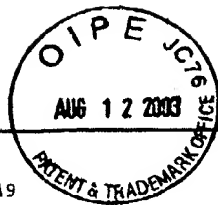
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1533.0830003/MAC/RGMTECH CENTER 1600/2900
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DL	AA5	4,102,923	07/25/1978	Pepperman, Jr. et al.	260	553 R	09/08/1975
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	AP						Yes No

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DL	AR	5	Kasuske, A., et al., "Efficient Electropulse Transformation of Intact Candida maltosa Cells by Different Homologous Vector Plasmids," Yeast 8:691-697, John Wiley & Sons (1992).
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	AO						Yes No
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	AR	6	Kunze, G., et al., "Transformation of Candida maltosa and Pichia guilliermondii by a plasmid containing Saccharomyces cerevisiae ARG4 DNA," Curr. Genet. 9:205-209, Springer-Verlag (1985).
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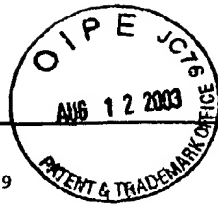
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	AO						Yes No
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DS	AR	2	Logvinenko, E.M., et al., "Biosynthesis of 6,7-dimethyl-8-ribityllumazine in Extracts of the Yeast <i>Pichia guilliermondii</i> ," Biokhimiya (Biochemistry) 47:778-783, Plenum Publishing Corp. Consultants Bureau, Plenum, New York (1982).				
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DS	AT	2	Mauersberger, S., et al., "Candida maltosa," Chapter 12; Nonconventional Yeasts in Biotechnology: A Handbook, Wolf, K. ed., Springer-Verlag, pp.411-580 (1996).				

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DS	AR	8	Meilhoc, E., et al., "High Efficiency Transformation of Intact Yeast Cells by Electric Field Pulses," Bio/Technol. 8:223-227, Nature Publishing Co. (1990).
DS	AS	8	Neistat, M.A., et al., "Transformation of Hansenula polymorpha, Pichia guilliermondii, Williopsis saturnus Yeasts by a Plasmid Carrying the ADE2 Gene of Saccharomyces cerevisiae," Mol. Gen. Mikrobiol. Virusol. 12:19-23, Meditsina, (1986). An English language abstract is at the end of the document.
DS	AT	8	Piredda S., and Gaillardin, C., "Development of a Transformation System for the Yeast Yamadazyma (Pichia) ohmeri," Yeast 10:1601-1612, John Wiley & Sons (1994).

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1533.0830003/MAC/RGMAPPLICATION NO.
09/903,508APPLICANT
ABBAS et al.FILING DATE
July 13, 2001GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AO				X	X	Yes
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	AP				X	X	Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Pla, J., et al., "Cloning of the <i>Candida albicans</i> HIS1 gene by direct complementation of a <i>C. albicans</i> histidine auxotroph using an improved double-ARS shuttle vector," <i>Gene</i> 165:115-120, Elsevier Science B.V. (1995).
	AS	2	Prillinger, H., et al., "Phytopathogenic Filamentous (<i>Ashbya</i> , <i>Eremothecium</i>) and Dimorphic Fungi (<i>Holleya</i> , <i>Nematospora</i>) with Needle-Shaped Ascospores as New Members Within the <i>Saccharomycetaceae</i> ," <i>Yeast</i> 13:945-960, John Wiley & Sons (1997).
	AT	9	Reiser, J., et al., "Transfer and Expression of Heterologous Genes in Yeasts Other Than <i>Saccharomyces cerevisiae</i> ," <i>Adv. Biochem. Engin./Biotech</i> 43:73-102 in <i>Applied Molecular Genetics</i> , J. Reiser, Springer-Verlag (1990).

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U.S. PATENT DOCUMENTS

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DJ</i>	AR	<u>10</u>	Rose, M.D., and Roach, J.R., "Cloning Genes by Complementation in Yeast," <i>Meth. Enzymol.</i> 194:195-230, Academic Press, Inc. (1991).
<i>DJ</i>	AS	<u>10</u>	Scorer, C.A., et al., "Rapid Selection Using G418 of High Copy Number Transformants of <i>Pichia pastoris</i> for High-level Foreign Gene Expression," <i>Bio/Technology</i> 12:181-184, Nature Publishing Co. (1994).
<i>DJ</i>	AT	<u>10</u>	Shavlovskii, G.M., et al., "Flavinogenous Mutant of the Yeast <i>Pichia guilliermondii</i> with Damaged Transport of Iron," <i>Mikrobiologiya</i> 45:313-318, Nauka (1976). An English language abstract is at the end of the document.

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1533.0830003/MAC/RGM	APPLICATION NO. 09/903,508
	APPLICANT ABBAS et al.	
	FILING DATE July 13, 2001	GROUP 1646 -1636

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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>DL</i>	AR	11	Shavlovskii, G.M., et al., "Activity of the second step flavinogenesis enzyme, 2,5-diamino-6-hydroxy-4-ribosylaminopyrimidine-5'-phosphate reductase, in the yeast <i>Pichia guilliermondii</i> ," Mikrobiologiya/Microbiology 50:752-755, Consultants Bureau, New York, Plenum Publishing Corp. (1981).
<i>DL</i>	AS	11	Sherman, F., et al., "Laboratory Course Manual for Methods in Yeast Genetics," Cold Spring Harbor Laboratory Press, pp. 91-103, 117-122 (1986).
<i>DL</i>	AT	11	Sibirnyi, A.A., et al., "Active Transport of Riboflavin in the Yeast <i>Pichia guilliermondii</i> . Detection and Some Properties of the Cryptic Riboflavin Permease," Biokhimiia 42:1841-1851, Nauka (1977). An English language abstract is at the end of the document.

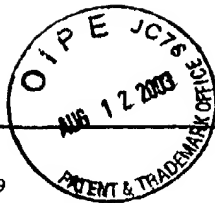
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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DL	AR	12	Sibirnyi, A.A., et al., "Effect of Glucose and its Derivates on Systems of, Riboflavin Uptake and Excretion in Yeast <i>Pichia guilliermondii</i> ," <i>Biokhimiia</i> 43:1414-1422, Nauka (1978). An English language abstract is at the end of the document.
DL	AS	12	Sibirnyi, A.A., and Shavlovskii, G.M., "On Inhibition of Alkaline Phosphatase I of <i>Pichia guilliermondii</i> Yeast in vitro and in vivo," <i>Ukr. Biokhim. Zh.</i> 50:212-217, Naukova dumka (1978). An English language abstract is at the end of the document.
DL	AT	12	Sibirny, A.A., " <i>Pichia guilliermondii</i> ," in: Nonconventional Yeasts in Biotechnology: A Handbook, Wolf, K., ed., Springer-Verlag, pp.255-275 (1996).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DL	AR	13	Sreekrishna, K., and Kropp, K.E., "Pichia pastoris," in Nonconventional Yeasts in Biotechnology, K. Wolf, ed., Springer-Verlag, pp.215-226 (1996).
DL	AS	13	Stahmann, K.-P., et al., "Three biotechnical processes using Ashbya gossypii, Candida famata, or Bacillus subtilis compete with chemical riboflavin production," Appl. Microbiol. Biotechnol. 53:509-516, Springer-Verlag (May 2000).
DL	AT	13	Steiner, S., and Philippsen, P., "Sequence and promoter analysis of the highly expressed TEF gene of the filamentous fungus Ashbya gossypii," Mol. Gen. Genet. 242:263-271, Springer-Verlag (1994).

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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DL	AR	14	Takagi, M., et al., "Construction of a Host-Vector System in <i>Candida maltosa</i> by Using an ARS Site Isolated from Its Genome," <i>J. Bacteriol.</i> 167:551-555, American Society for Microbiology (1986).
DL	AS	14	Thompson, J.R., et al., "An Improved Protocol for the Preparation of Yeast Cells for Transformation by Electroporation," <i>Yeast</i> 14:565-571, John Wiley & Sons (1998).
DL	AT	14	Voronovsky, A., and Sybirny, A.A., "Development of cloning and expression transformation systems for nonconventional yeasts," <i>Biopolymers and Cell</i> 15:122-132, Naukova Dumka (March-April 1999). An English language summary is at the end of the document.

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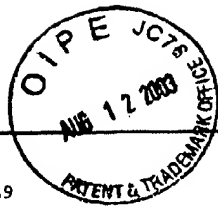
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DL</i>	AR	15	Voronovsky, A.Y., "Development of Genetic Transformation Systems for the Flavinogenic Yeasts <i>Pichia guilliermondii</i> and <i>Candida famata</i> ," Dissertation, pp. 1-138, Academy of Sciences of the Ukraine (June 2001) (translation attached as document AS15).
<i>DL</i>	AS	15	Voronovsky, A.Y., "Development of Genetic Transformation Systems for the Flavinogenic Yeasts <i>Pichia guilliermondii</i> and <i>Candida famata</i> ," pp. 1-97, Ralph McElroy Translation Company, Austin, Texas (June 2001).
<i>DL</i>	AT	15	Yang, C., et al., "Conservation of ARS Elements and Chromosomal DNA Replication Origins on Chromosomes III of <i>Saccharomyces cerevisiae</i> and <i>S. carlsbergensis</i> ," <i>Genetics</i> 152:933-941, Genetics Society of America (July 1999).

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	AR	16	Yang, V.W., et al., "High-Efficiency Transformation of <i>Pichia stipitis</i> Based on Its URA3 Gene and a Homologous Autonomous Replication Sequence, ARS2," Appl. Env. Microbiol. 60:4245-4254, American Society for Microbiology (1994).
	AS	16	Zakalskii, A.E., et al., "Cloning of the RIB1 gene coding for the enzyme of the first stage of flavinogenesis in the yeast <i>Pichia guilliermondii</i> , GTP cyclohydrolase, in <i>Escherichia coli</i> cells," Genetika 26:614-620, MAIK Nauka (1990). An English language abstract is at the end of the document.
	AT	16	Zvjagilskaia, R.A., et al., "The Respiration System of the Yeast <i>Pichia guilliermondii</i> at Different Levels of Flavinoogenesis," Mikrobiologiya 47:975-984, Nauka (1978). An English language abstract is at the end of the document.

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